

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/ZA2004/000131

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21D21/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CH 564 654 A (OTTA, LADISLAV) 31 July 1975 (1975-07-31) column 2, line 57 - column 3, line 3	1-9
A	DE 37 04 969 A1 (DRESHA, GERD) 25 August 1988 (1988-08-25) column 7, line 62 - column 8, line 13	1, 11
A	US 4 655 644 A (LANE ET AL) 7 April 1987 (1987-04-07) column 6, lines 17-55	1, 11
A	DE 44 45 626 A1 (F. WILlich BERG- UND BAUTECHNIK GMBH + CO, 44379 DORTMUND, DE) 27 June 1996 (1996-06-27) column 6, line 63 - column 7, line 18; figure 4	1, 11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

1 March 2005

Date of mailing of the international search report

09/03/2005

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 312 604 A (FU ET AL) 26 January 1982 (1982-01-26) abstract -----	1, 11

# INTERNATIONAL SEARCH REPORT

— information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
CH 564654	A	31-07-1975	CH 564654 A5	31-07-1975
DE 3704969	A1	25-08-1988	NONE	
US 4655644	A	07-04-1987	US 4601614 A	22-07-1986
			AU 3899185 A	05-09-1985
			CA 1251067 A1	14-03-1989
			US 4655643 A	07-04-1987
DE 4445626	A1	27-06-1996	NONE	
US 4312604	A	26-01-1982	NONE	